

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended): A system for assisting in the regeneration of depollution means ~~(1)~~ associated with oxidation catalyst-forming means ~~(2)~~ and integrated in an exhaust line ~~(3)~~ of a motor vehicle diesel engine ~~(4)~~, and in which the engine ~~(4)~~ is associated with common rail means ~~(7)~~ for feeding fuel to the cylinders of the engine and adapted, at constant torque, to implement a strategy of regeneration by injecting fuel into the cylinders in at least one post-injection, the system ~~being characterized in that it comprises~~ comprising:

- detector means ~~(8)~~ for detecting a request for regeneration ~~(req.RC)~~ and thus for post-injection;
- detector means ~~(9)~~ for detecting a stage during which the engine is idling;
- acquisition means ~~(11)~~ for acquiring the temperature downstream from the catalyst-forming means ~~(2)~~;
- determination means ~~(8)~~ for responding to said temperature to determine a maximum duration for the application of post-injections during a stage of idling; and
- reduction means ~~(7, 8)~~ for progressively reducing the or each post-injection as soon as the duration of post-injection utilization has reached the predetermined maximum duration of application.

2. (Currently amended): A system according to claim 1, ~~characterized in that~~ wherein the reduction means ~~(7, 8)~~ are adapted to reduce the or each post-injection in application of a calibratable slope.

3. (Currently amended): A system according to claim 1 ~~or claim 2, characterized in that,~~ wherein the depollution means ~~(1)~~ comprise

a particle filter.

4. (Currently amended): A system according to claim 1, ~~2, or 3, characterized in that~~wherein the depollution means ~~(1)~~ comprise a NOx trap.

5. (Currently amended): A system according to ~~any preceding claim, characterized in that~~ 1, wherein the fuel includes an additive to be deposited together with the particles with which it is mixed on the depollution means ~~(1)~~ in order to facilitate regeneration thereof.

6. (Currently amended): A system according to ~~any one of claims 1 to 4, characterized in that~~, wherein the fuel includes a NOx trap forming additive.

7. (Currently amended): A system according to ~~any preceding claim, characterized in that~~ 1, wherein the engine is associated with a turbocharger ~~(5, 6)~~.